

**Amendment to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Currently Amended) A method of providing a signal within an elementary data stream to be encoded via an encoder, the signal representing main data, the main data including embedded data, the main data being provided with a main data descriptor for signaling content included in the main data, the method comprising:

forming, via the encoder, an embedded data descriptor for signaling content included in the embedded data; [[,]] and

providing, via the encoder, the embedded data descriptor within the elementary data stream outside (i) the main data including the embedded data and (ii) the main data descriptor of the elementary data stream, the embedded data descriptor further for signaling embedded data content that comprises enhancement data for enhancing the main data available in the elementary data stream during a reproduction of the main data by a reproduction unit configured to recognize the embedded data descriptor.

2. (Currently Amended) [[A]] The method as claimed in claim 1, wherein the main data comprises audio and/or video data available in the elementary data stream and wherein the embedded data comprises enhancement data for enhancing the audio and/or video data available in the elementary data stream.

3. (Currently Amended) An encoder for providing a signal within an elementary data stream, the signal representing main data, the main data including embedded data, the main data being provided with a main data descriptor for signaling content included in the data, the encoder comprising:

means for forming an embedded data descriptor for signaling content included in the embedded data; [[,]] and

means for providing the embedded data descriptor within the elementary data stream outside (i) the main data including the embedded data and (ii) the main data descriptor of the elementary data stream, the embedded data descriptor further for signaling embedded data content that comprises enhancement data for enhancing the main data available in the elementary data stream during a reproduction of the main data by a reproduction unit configured to recognize the embedded data descriptor.

4. (Canceled)

5. (Currently Amended) A storage medium having stored thereon a signal ~~as claimed in claim 4~~ within a packetized elementary data stream, the packetized elementary data stream being executable by a reproduction device for causing the reproduction device to reproduce main data of the packetized elementary data stream, the signal within the elementary data stream having been encoded via an encoder, the signal representing main data, the main data including embedded data, the main data being provided with a main data descriptor for signaling content included in the main data, the packetized elementary data stream further including an embedded data descriptor for signaling content included in the embedded data, wherein the embedded data descriptor is provided within the packetized elementary data stream outside (i) the main data including the embedded data and (ii) the main data descriptor of the elementary data stream, the embedded data descriptor further for signaling embedded data content that comprises enhancement data for enhancing the main data available in the elementary data stream during reproduction of the main data by the reproduction unit configured to recognize the embedded data descriptor.

6. (Currently Amended) A method of decoding a signal within an elementary data stream via a decoder, the signal representing main data, the main data including embedded data, the main data being provided with a main data descriptor for signaling

content included in the main data, the embedded data elementary data stream being provided with an embedded data descriptor for signaling content included in the embedded data, wherein the embedded data descriptor is provided within the elementary data stream outside (i) the main data including the embedded data and (ii) the main data descriptor of the elementary data stream, the decoding method comprising the steps of:

reading, via the decoder, the embedded data descriptor of the elementary data stream; and

using the embedded data included in the main data in dependence on the reading of the embedded data descriptor, the embedded data descriptor further for signaling embedded data content that comprises enhancement data for enhancing the main data available in the elementary data stream during reproduction of the main data by a reproduction unit.

7. (Currently Amended) A decoder for decoding a signal within an elementary data stream, the signal representing main data, the main data including embedded data, the main data being provided with a main data descriptor for signaling content included in the main data, the embedded data elementary data stream being provided with an embedded data descriptor for signaling content included in the embedded data, wherein the embedded data descriptor is provided within the elementary data stream outside (i) the main data including the embedded data and (ii) the main data descriptor of the elementary data stream, the decoder comprising:

means for reading the embedded data descriptor of the elementary data stream;  
and

means for using the embedded data included in the main data in dependence on the reading of the embedded data descriptor, the embedded data descriptor further for signaling embedded data content that comprises enhancement data for enhancing the main data available in the elementary data stream during reproduction of the main data by a reproduction unit.

8. (Currently Amended) A transmitter or recorder comprising:

an input unit for obtaining an input signal; [,.]

an encoder ~~as claimed in claim 3~~ to encode the input signal within an elementary data stream to obtain main data, the main data including embedded data, the main data being provided with a main data descriptor for signaling content included in the main data, the embedded data being provided with an embedded data descriptor for signaling content included in the embedded data, wherein the embedded data descriptor is provided outside the main data and the main data descriptor, further wherein the encoder comprises means for forming the embedded data descriptor for signaling content included in the embedded data, and means for providing the embedded data descriptor within the elementary data stream outside (i) the main data including the embedded data and (ii) the main data descriptor of the elementary data stream, the embedded data descriptor further for signaling embedded data content that comprises enhancement data for enhancing the main data available in the elementary data stream during a reproduction of the main data by a reproduction unit configured to recognize the embedded data descriptor; and

an output unit for formatting the main data including the embedded data, the main data descriptor, and the embedded data descriptor into an encoded signal within the elementary data stream and for transmitting or recording the encoded signal.

9. (Currently Amended) A receiver comprising:

an input unit for obtaining a signal within an elementary data stream, the signal representing main data, the main data including embedded data, the main data being provided with a main data descriptor for signaling content included in the main data, the ~~embedded data~~ elementary data stream being provided with an embedded data descriptor for signaling content included in the embedded data, wherein the embedded data descriptor is provided within the elementary data stream outside (i) the main data

including the embedded data and (ii) the main data descriptor of the elementary data stream; [.]

a decoder as claimed in claim 7 for decoding the signal to obtain a decoded signal, wherein the decoder comprises means for reading the embedded data descriptor of the elementary data stream, and means for using the embedded data included in the main data in dependence on the reading of the embedded data descriptor, the embedded data descriptor further for signaling embedded data content that comprises enhancement data for enhancing the main data available in the elementary data stream during reproduction of the main data; and

an output unit for reproducing the decoded signal.

10. (New) The method of claim 1, wherein the main data includes audio data and wherein the enhancement data comprises information suitable for performing spectral band replication of the audio data of the main data available in the elementary data stream.

11. (New) The method of claim 1, wherein the main data includes audio data and wherein the enhancement data comprises information suitable for extension of a number of channels of the audio data of the main data available in the elementary data stream.

12. (New) The encoder of claim 3, wherein the main data includes audio data and wherein the enhancement data comprises information suitable for performing spectral band replication of the audio data of the main data available in the elementary data stream.

13. (New) The encoder of claim 3, wherein the main data includes audio data and wherein the enhancement data comprises information suitable for extension of a

number of channels of the audio data of the main data available in the elementary data stream.

14. (New) The method of claim 6, wherein the main data includes audio data and wherein the enhancement data comprises information suitable for performing spectral band replication of the audio data of the main data available in the elementary data stream.

15. (New) The method of claim 6, wherein the main data includes audio data and wherein the enhancement data comprises information suitable for extension of a number of channels of the audio data of the main data available in the elementary data stream.

16. (New) The decoder of claim 7, wherein the main data includes audio data and wherein the enhancement data comprises information suitable for performing spectral band replication of the audio data of the main data available in the elementary data stream.

17. (New) The decoder of claim 7, wherein the main data includes audio data and wherein the enhancement data comprises information suitable for extension of a number of channels of the audio data of the main data available in the elementary data stream.